

## Escherichia coli K-12 MG1655: b3738

[Help](#)

<b>Entry</b>	b3738	CDS	E.coli
<b>Gene name</b>	atpB, ECK3731, JW3716, papD, uncB		
<b>Definition</b>	F0 sector of membrane-bound ATP synthase, subunit A (EC:3.6.3.14)		
<b>Orthology</b>	KO: K02108 F-type H+-transporting ATPase subunit a [EC:3.6.3.14]		
<b>Pathway</b>	PATH: eco00190 Oxidative phosphorylation PATH: eco01100 Metabolic pathways		
<b>Class</b>	Metabolism; Energy Metabolism; Oxidative phosphorylation [PATH:eco00190] <a href="#">Brane hierarchy</a>		
<b>SSDB</b>	<a href="#">Ortholog</a> <a href="#">Paralog</a> <a href="#">Gene cluster</a> <a href="#">GDT</a>		
<b>Motif</b>	Pfam: DUF1129 ATP-synt_A PROSITE: ATPASE_A <a href="#">Motif</a>		
<b>Other DBs</b>	RegulonDB: B3738 EcoGene: EG10099 ECOCYC: EG10099 NCBI-GI: 16131606 NCBI-GeneID: 948252 UniProt: P0AB98		
<b>LinkDB</b>	<a href="#">All DBs</a>		
<b>Structure</b>	PDB: 1C17 <a href="#">Thumbnails</a>  <a href="#">Jmol</a>		
<b>Position</b>	complement(3919259..3920074) <a href="#">Genome map</a>		
<b>AA seq</b>	271 aa <a href="#">AA seq</a> <a href="#">DB search</a> MASENMTPQDYIGHHLNNLQLDLRTFSLVDPQNPPATFWTINIDSMMFSVVLGLLFLVLF RSVAKKATSGVPKFQTAIELVIGFVNGSVKDMYHGKSJKIAPALALTIFVWVFLMNLMMDL LPIDLLPYIAEHVLGLPALARVVPSADVNTLSMALGVFILILFYSIKMKGIGGGFTKELTL QPFNHWAFIPVNLILEGVSLLSKPVSLGLRLFGNMYAGELIFILIAGLLPWSQWILNVP WAIFHILIITLQAFIFMVLTIVYLSMASEEH		
<b>NT seq</b>	816 nt <a href="#">NT seq</a> +upstream 0 nt +downstream 0 nt atggcttcagaaaatatgacgccgcaggattacataaggacaccacctgaataaaccttcag ctggacctcgatcattctcgctggatccaaaaaccccccagccacccctctggaca atcaatattgactccatgttctcggtggctgggtctgtttctggtttattc cgtacgttagccaaaaggcgaccagcggtgtccaggttaagttcagaccgcattgag ctggatcggtttgttaatggtagcgtgaaagacatgtaccatggcaaaagcaagctg attgtccgcgtggccctgacatctcgtctggattcctgatgaacacgtactggatggattt ctgcctatcgacactgctggcgatcattgctgaacatgtactgggtctgcctgcactgcgt		

```
|gtggttccgtctgcggacgtaacgtAACGCTGTATGGCACTGGCGTATTATCCTG  
|attctgttctacagcatcaaaatgaaaggcatcgccggctcacgaaAGAGTTGACGCTG  
|cagccgttcaatcactggcggttcattcctgtcaacttaatcctgaAGGGGTAAAGCCTG  
|ctgtccaaaccagttcactcggttgcactgttcggtaacatgtatgccggtgagctg  
|atttcattctgattgctggctgtgccgtggcgtcacagtggatcctgaatgtgccg  
|tggccatTTCCACATCCTGATCATTACGCTGCAAGCCTTCATCTGCATGGTTCTGACG  
|atcgcttatctgtcgatggcgtctgaagaacattaa
```